

Title (en)  
VIDEO TELECOMMUNICATION SYSTEM AND METHOD FOR COMPRESSING AND DECOMPRESSING DIGITAL COLOUR VIDEO DATA

Publication  
**EP 0343790 A3 19910703 (EN)**

Application  
**EP 89304116 A 19890425**

Priority  
US 18704688 A 19880427

Abstract (en)  
[origin: EP0343790A2] The method and system of compressing and decompressing digital color video data in a video communication system utilizes a digital color video signal having three video color components, and involves the determination of a predetermined number of the most visually significant combinations of color components in a picture frame, and the encoding of the color components as compressed color codes in a series of run length and compressed color code combinations. Line-to-line differences and movement of edges and segments of the picture frames are determined, and frame-to-frame differences are also encoded to reduce the amount of information to a minimum. Further statistical encoding of at least a portion of the run length and color code combinations is also provided. The digitally compressed color component codes are decoded according to a look up table to form a table of the three digital color components for each run length, and the run lengths and corresponding color components are stored in an array in a buffer memory to represent the scan lines in a video picture frame.

IPC 1-7  
**H04N 11/04**

IPC 8 full level  
**H04N 9/804** (2006.01); **G06T 9/00** (2006.01); **G09G 5/06** (2006.01); **H04N 1/41** (2006.01); **H04N 7/32** (2006.01); **H04N 7/36** (2006.01); **H04N 9/808** (2006.01); **H04N 11/04** (2006.01)

CPC (source: EP KR US)  
**H04N 11/04** (2013.01 - KR); **H04N 11/042** (2013.01 - EP US); **H04N 19/503** (2014.11 - EP US); **H04N 19/93** (2014.11 - EP US)

Citation (search report)

- [A] EP 0261561 A1 19880330 - FREDERIKSEN & SHU LAB INC [US]
- [A] EP 0107072 A2 19840502 - SIEMENS AG [DE]
- [A] FR 2524740 A1 19831007 - THOMSON CSF [FR]
- [A] DE 2304344 A1 19740815 - LICENTIA GMBH
- [A] US 4546383 A 19851008 - ABRAMATIC JEAN-FRANCOIS [FR], et al

Cited by  
EP0680030A4; US6141122A; US7085424B2; WO2004068393A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0343790 A2 19891129; EP 0343790 A3 19910703; EP 0343790 B1 19960710**; AT E140357 T1 19960715; AU 3540889 A 19891124; AU 617478 B2 19911128; BR 8906931 A 19901211; CA 1323094 C 19931012; DE 68926802 D1 19960814; DE 68926802 T2 19961205; IL 90026 A0 19891215; JP 2619091 B2 19970611; JP H03500599 A 19910207; KR 900701129 A 19900817; KR 950009458 B1 19950822; MX 166516 B 19930111; NZ 228809 A 19910226; PT 90391 A 19891110; PT 90391 B 19940429; US 4847677 A 19890711; WO 8910674 A1 19891102; ZA 892800 B 19901228

DOCDB simple family (application)  
**EP 89304116 A 19890425**; AT 89304116 T 19890425; AU 3540889 A 19890323; BR 8906931 A 19890323; CA 594744 A 19890323; DE 68926802 T 19890425; IL 9002689 A 19890419; JP 50498689 A 19890323; KR 890702454 A 19891227; MX 1584489 A 19890427; NZ 22880989 A 19890419; PT 9039189 A 19890427; US 18704688 A 19880427; US 8901183 W 19890323; ZA 892800 A 19890417